

ABSTRACT OF THE DISCLOSURE

The invention provides a solid-state imaging device that can include a pixel array having a plurality of pixels arranged in a matrix. The pixels can each include a photo diode that generates carriers depending on the intensity of incident light, an accumulation region that accumulates the generated carriers, an insulated-gate output transistor that outputs a signal according to threshold voltage that changes depending on the number of carriers accumulated in the accumulation region, and an insulated-gate clear transistor that discharges carriers accumulated in the accumulation region. The carriers accumulated in the accumulation region are discharged through a channel region of the clear transistor. Accordingly, the invention can provide a technique where carriers in an accumulation region can be easily discharged.